

FEB 29 2016



amec
foster
wheeler

February 25, 2016

Ms. Jessica Murphy
Enforcement and Compliance Section
Division of Water Pollution Control
6th Floor, L&C Annex, 401 Church Street
Nashville, TN 37243-1534

Subject: **2015 Annual Storm Water Discharge Monitoring Report
Aqua-Chem, Inc.
3001 E. Gov John Sevier Highway
Knoxville, TN
TMSP Number: TNR050328
Amec Foster Wheeler Project No. 3031142002**

Dear Ms. Murphy:

On behalf of Aqua-Chem, Inc. (Water Technology Division), Amec Foster Wheeler Environment & Infrastructure, Inc. (Amec Foster Wheeler), is submitting the attached 2015 Annual Stormwater Monitoring Reports for Outfalls SW-001 through SW-005 (SW-004 combines and comes with SW-003 and has been deleted).

Stormwater samples were collected October 2, 2015, at Outfalls SW-001, SW-002, SW-003, and SW-005. The samples were analyzed for aluminum, iron, nitrate as nitrogen, and zinc. There were not any exceedances of the respective Benchmark Values from the 2015 Annual Stormwater Monitoring Event.

Sincerely,

W. Paul Teichert
Environmental Principal

WPT:mlv

cc: Tracy Gamble, Facilities Supervisor (Aqua-Chem)
Allen Wilkinson, TDEC
File

Attachment



TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION (TDEC)
Division of Water Resources, William R. Snodgrass Tennessee Tower, 312 Rosa L. Parks Avenue, 11th Floor,
Nashville, Tennessee 37243, 1-888-891-TDEC (8332)

**Annual Stormwater Monitoring Report for Stormwater Discharges Associated with Industrial Activities
under the Tennessee Multi-Sector General NPDES Permit (TMSP)**

Facility Name:	Aqua-Chem, Inc. Water Tech. Div.	TMSP Number:	TNR050328
Contact Person:	Tracy Gamble	Phone Number:	865-549-5428
This report is submitted for the following calendar year (e.g. 2013):	2015	Outfall Number:	SW-001
List all TMSP sectors which apply to discharge from this outfall:	AA	Sample Date:	10/02/2015
LOW CONCENTRATION WAIVER (See Instructions Note 3): List all parameters for which the facility is certifying that there has not been a significant change in industrial activity or the pollution prevention measures in the area of the facility that drains to the outfall for which sampling was waived. Parameters:			

DIRECTIONS: In the spaces below, provide the results of storm water monitoring for the designated outfall. The parameters for which monitoring must be conducted depend on which industry sector(s) of the TMSP applies to the discharge. Look up your sector(s) in the permit and analyze for the parameters that apply. If parameter is not listed below, submit additional sheets. All samples should be collected by grab technique.

Parameter	Benchmark (mg/L)	Annual Sample Result (mg/L)	Parameter (continued)	Benchmark (mg/L)	Annual Sample Result (mg/L)
Aluminum, Total	0.75	<0.100	Magnesium, Total	0.064	
Ammonia	4.0		Mercury, Total	0.0024	
Arsenic, Total	0.15		Nickel, Total	0.875	
BOD, 5-Day	30		Nitrate + Nitrite Nitrogen	0.68	0.210
Cadmium, Total	0.0021		Oil and Grease	15	
Chromium, Total	1.8		pH	5.0-9.0	
COD	120		Phenols	0.016	
Copper, Total	0.018		Phosphorus, Total (as P)	2.0	
Cyanide, Total	0.022		Selenium, Total	0.005	
Fluoride	1.8		Silver, Total	0.0038	
Iron, Total	5.0	<0.100	Total Suspended Solids (TSS)	150	
Lead, Total	0.156		Zinc, Total	0.395	<0.0500

CERTIFICATION AND SIGNATURE Make all entries in ink. This report must be signed by a responsible corporate officer for a corporation, a general partner for a partnership, the proprietor for a sole proprietorship, or a principal executive officer or ranking elected official for a public agency.

I certify under penalty of law that this document and all attachments were prepared by me, or under my direction or supervision. The submitted information is to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. As specified in Tennessee Code Annotated Section 39-16-702(a)(4), this declaration is made under penalty of perjury.

Frank Keefer

Permittee name (print or type)

Operations Manager

Official Title

Signature

Date

INSTRUCTIONS

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3. Low Concentration Waiver – When the average concentration for a pollutant calculated from monitoring data collected from the first four calendar years of monitoring is less than the benchmark concentration, a facility may waive monitoring requirements in the last annual monitoring period. This form should be used for certification of low concentration waiver provision.

Complete, sign and date this form before it is submitted. Keep a copy of the completed form for your records. Submit the original completed and signed form to: Compliance & Enforcement Unit, William R. Snodgrass Tennessee Tower, 312 Rosa L. Parks Avenue, 11th Floor, Nashville, Tennessee 37243 or you may submit the report electronically to: DWRWater.Compliance@tn.gov



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TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION (TDEC)
 Division of Water Resources, William R. Snodgrass Tennessee Tower, 312 Rosa L. Parks Avenue, 11th Floor
 Nashville, Tennessee 37243, 1-888-891-TDEC (8332)
Annual Stormwater Monitoring Report for Stormwater Discharges Associated with Industrial Activities
under the Tennessee Multi-Sector General NPDES Permit (TMSP)

Facility Name:	Aqua-Chem, Inc. Water Tech. Div.	TMSP Number:	TNR050328
Contact Person:	Tracy Gamble	Phone Number:	865-549-5428
This report is submitted for the following calendar year (e.g. 2013):	2015	Outfall Number:	SW-002
List all TMSP sectors which apply to discharge from this outfall:	AA	Sample Date:	10/02/2015

LOW CONCENTRATION WAIVER (See Instructions Note 3): List all parameters for which the facility is certifying that there has not been a significant change in industrial activity or the pollution prevention measures in the area of the facility that drains to the outfall for which sampling was waived.

Parameters:

DIRECTIONS: In the spaces below, provide the results of storm water monitoring for the designated outfall. The parameters for which monitoring must be conducted depend on which industry sector(s) of the TMSP applies to the discharge. Look up your sector(s) in the permit and analyze for the parameters that apply. If parameter is not listed below, submit additional sheets. All samples should be collected by grab technique.

Parameter	Benchmark (mg/L)	Annual Sample Result (mg/L)	Parameter (continued)	Benchmark (mg/L)	Annual Sample Result (mg/L)
Aluminum, Total	0.75	0.179	Magnesium, Total	0.064	
Ammonia	4.0		Mercury, Total	0.0024	
Arsenic, Total	0.15		Nickel, Total	0.875	
BOD, 5-Day	30		Nitrate + Nitrite Nitrogen	0.68	<0.100
Cadmium, Total	0.0021		Oil and Grease	15	
Chromium, Total	1.8		pH	5.0-9.0	
COD	120		Phenols	0.016	
Copper, Total	0.018		Phosphorus, Total (as P)	2.0	
Cyanide, Total	0.022		Selenium, Total	0.005	
Fluoride	1.8		Silver, Total	0.0038	
Iron, Total	5.0	0.606	Total Suspended Solids (TSS)	150	
Lead, Total	0.156		Zinc, Total	0.395	0.274

CERTIFICATION AND SIGNATURE Make all entries in ink. This report must be signed by a responsible corporate officer for a corporation, a general partner for a partnership, the proprietor for a sole proprietorship, or a principal executive officer or ranking elected official for a public agency.

I certify under penalty of law that this document and all attachments were prepared by me, or under my direction or supervision. The submitted information is to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. As specified in Tennessee Code Annotated Section 39-16-702(a)(4), this declaration is made under penalty of perjury.

Frank Keefer

Operations Manager

[Signature]

2/25/16

Permittee name (print or type)

Official Title

Signature

Date

INSTRUCTIONS

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**Annual Stormwater Monitoring Report for Stormwater Discharges Associated with Industrial Activities
under the Tennessee Multi-Sector General NPDES Permit (TMSP)**

Facility Name:	Aqua-Chem, Inc. Water Tech. Div.	TMSP Number:	TNR050328
Contact Person:	Tracy Gamble	Phone Number:	865-549-5428
This report is submitted for the following calendar year (e.g. 2013):	2015	Outfall Number:	SW-003
List all TMSP sectors which apply to discharge from this outfall:	AA	Sample Date:	10/02/2015
LOW CONCENTRATION WAIVER (See Instructions Note 3): List all parameters for which the facility is certifying that there has not been a significant change in industrial activity or the pollution prevention measures in the area of the facility that drains to the outfall for which sampling was waived.			
Parameters:			

DIRECTIONS: In the spaces below, provide the results of storm water monitoring for the designated outfall. The parameters for which monitoring must be conducted depend on which industry sector(s) of the TMSP applies to the discharge. Look up your sector(s) in the permit and analyze for the parameters that apply. If parameter is not listed below, submit additional sheets. All samples should be collected by grab technique.

Parameter	Benchmark (mg/L)	Annual Sample Result (mg/L)	Parameter (continued)	Benchmark (mg/L)	Annual Sample Result (mg/L)
Aluminum, Total	0.75	<0.100	Magnesium, Total	0.064	
Ammonia	4.0		Mercury, Total	0.0024	
Arsenic, Total	0.15		Nickel, Total	0.875	
BOD, 5-Day	30		Nitrate + Nitrite Nitrogen	0.68	0.171
Cadmium, Total	0.0021		Oil and Grease	15	
Chromium, Total	1.8		pH	5.0-9.0	
COD	120		Phenols	0.016	
Copper, Total	0.018		Phosphorus, Total (as P)	2.0	
Cyanide, Total	0.022		Selenium, Total	0.005	
Fluoride	1.8		Silver, Total	0.0038	
Iron, Total	5.0	<0.100	Total Suspended Solids (TSS)	150	
Lead, Total	0.156		Zinc, Total	0.395	0.0752

CERTIFICATION AND SIGNATURE Make all entries in ink. This report must be signed by a responsible corporate officer for a corporation, a general partner for a partnership, the proprietor for a sole proprietorship, or a principal executive officer or ranking elected official for a public agency.

I certify under penalty of law that this document and all attachments were prepared by me, or under my direction or supervision. The submitted information is to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. As specified in Tennessee Code Annotated Section 39-16-702(a)(4), this declaration is made under penalty of perjury.

Frank Keefer

Operations Manager

[Signature]

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Date

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FEB 29 2016

Facility Name:	Aqua-Chem, Inc. Water Tech. Div.	TMSP Number:	TNR050328
Contact Person:	Tracy Gamble	Phone Number:	865-549-5428
This report is submitted for the following calendar year (e.g. 2013):	2015	Outfall Number:	SW-005
List all TMSP sectors which apply to discharge from this outfall:	AA	Sample Date:	10/02/2015
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Arsenic, Total	0.15		Nickel, Total	0.875	
BOD, 5-Day	30		Nitrate + Nitrite Nitrogen	0.68	<0.100
Cadmium, Total	0.0021		Oil and Grease	15	
Chromium, Total	1.8		pH	5.0-9.0	
COD	120		Phenols	0.016	
Copper, Total	0.018		Phosphorus, Total (as P)	2.0	
Cyanide, Total	0.022		Selenium, Total	0.005	
Fluoride	1.8		Silver, Total	0.0038	
Iron, Total	5.0	<0.100	Total Suspended Solids (TSS)	150	
Lead, Total	0.156		Zinc, Total	0.395	0.0573

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Date

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